U. S. MARINE CORPS FORCES ATLANTIC

2004 EUCOM BULK PETROLEUM CONFERENCE

BRIEFING TOPICS

- MARINE EXPEDITIONARY FORCE (MEF) STRUCTURE & CAPABILITIES
- HOSE REEL SYSTEMS (HRS)
- TACTICAL PETROLEUM LAB MOBILE (TPLM)

II MARINE EXPEDITIONARY FORCE

2D MARINE AIRCRAFT WING

2D FORCE SERVICE SUPPORT GROUP

2D MARINE AIRCRAFT WING

MARINE WING SUPPORT GROUP

(4) MARINE WING SUPPORT SQUADRONS

(2) FIXED WING

(2) ROTARY WING

MARINE WING SUPPORT SQUADRONS

- LOCATED IN THE MARINE WING SUPPORT GROUP WITHIN MARINE AIRCRAFT WING
- 4 PER MAW

2D FORCE SERVICE SUPPORT GROUP

ENGINEER SUPPORT BATTALION

BULK FUEL COMPANY

BULK FUEL COMPANY

- LOCATED IN THE ENGINEER SUPPORT BATTALION (ESB) WITHIN THE FORCE SERVICE SUPPORT GROUP (FSSG)
- ONLY 1 PER MEF
  - REQUIRES (1) USMCR BULK FUEL COMPANY AUGMENT
  - SUPPLEMENTED WITH EQUIPMENT FROM MPSRON'S

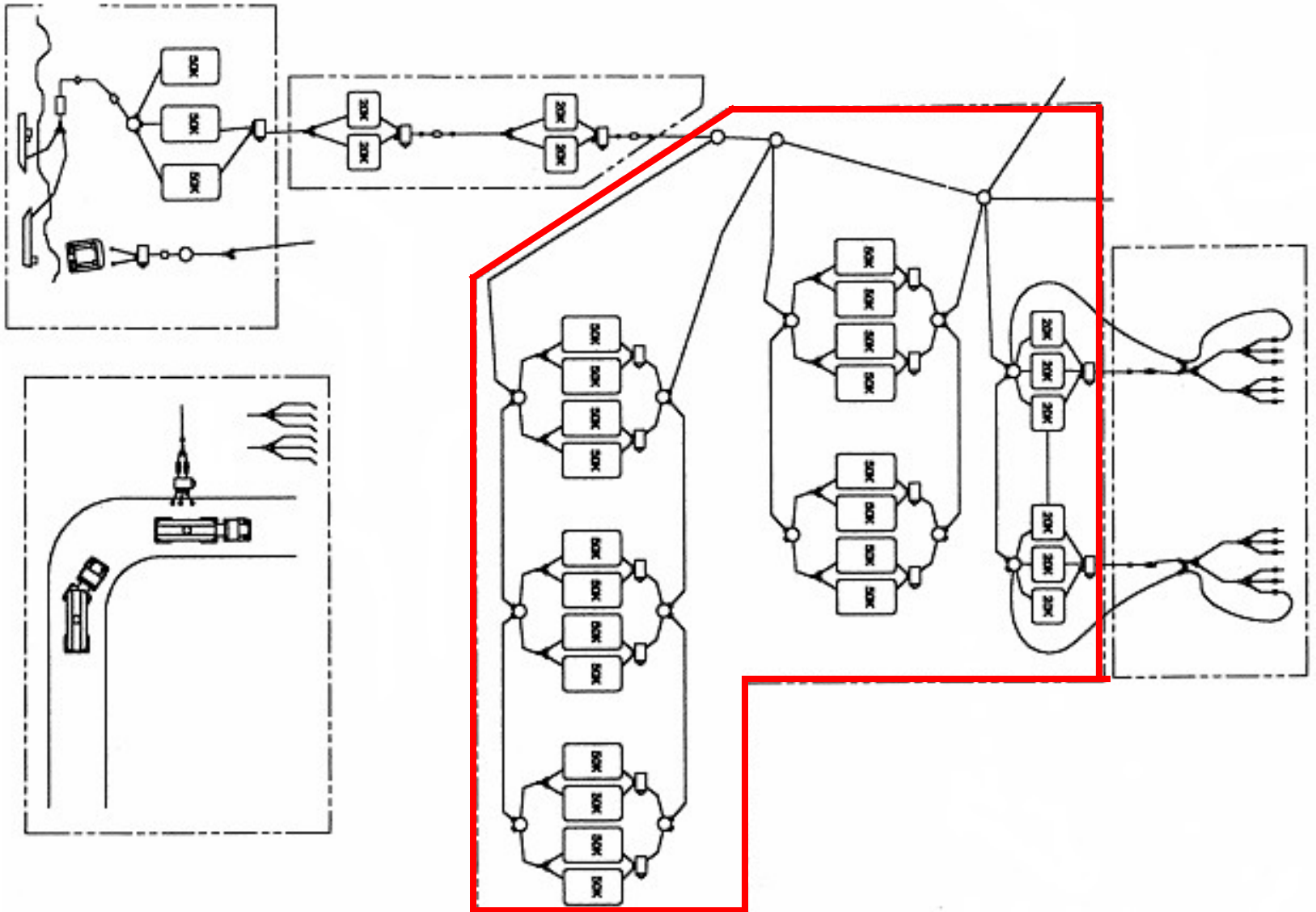
TACTICAL FUEL SYSTEMS CURRENT CAPABILITIES

- AMPHIBIOUS ASSAULT FUEL SYSTEM (AAFS)
  - ❖ MAINTAINED BY THE BULK FUEL COMPANY WITHIN THE ENGINEER SUPPORT BATTALION FOR THE WHOLESALE RECEIPT, STORAGE, TRANSFER AND DISTRIBUTION OF FUEL TO ALL ELEMENTS
  - 1,120,000 MILLION GALLON STORAGE CAPACITY PER SYSTEM
  - (20) 50,000 GALLON & (6) 20,000 GALLON COLLAPSIBLE STORAGE TANKS
  - (17) 600 GPM PUMPS

AMPHIBIOUS ASSAULT FUEL SYSTEM (AAFS)

1,120,000 GALLONS

BULK FUEL COMPANY (4)



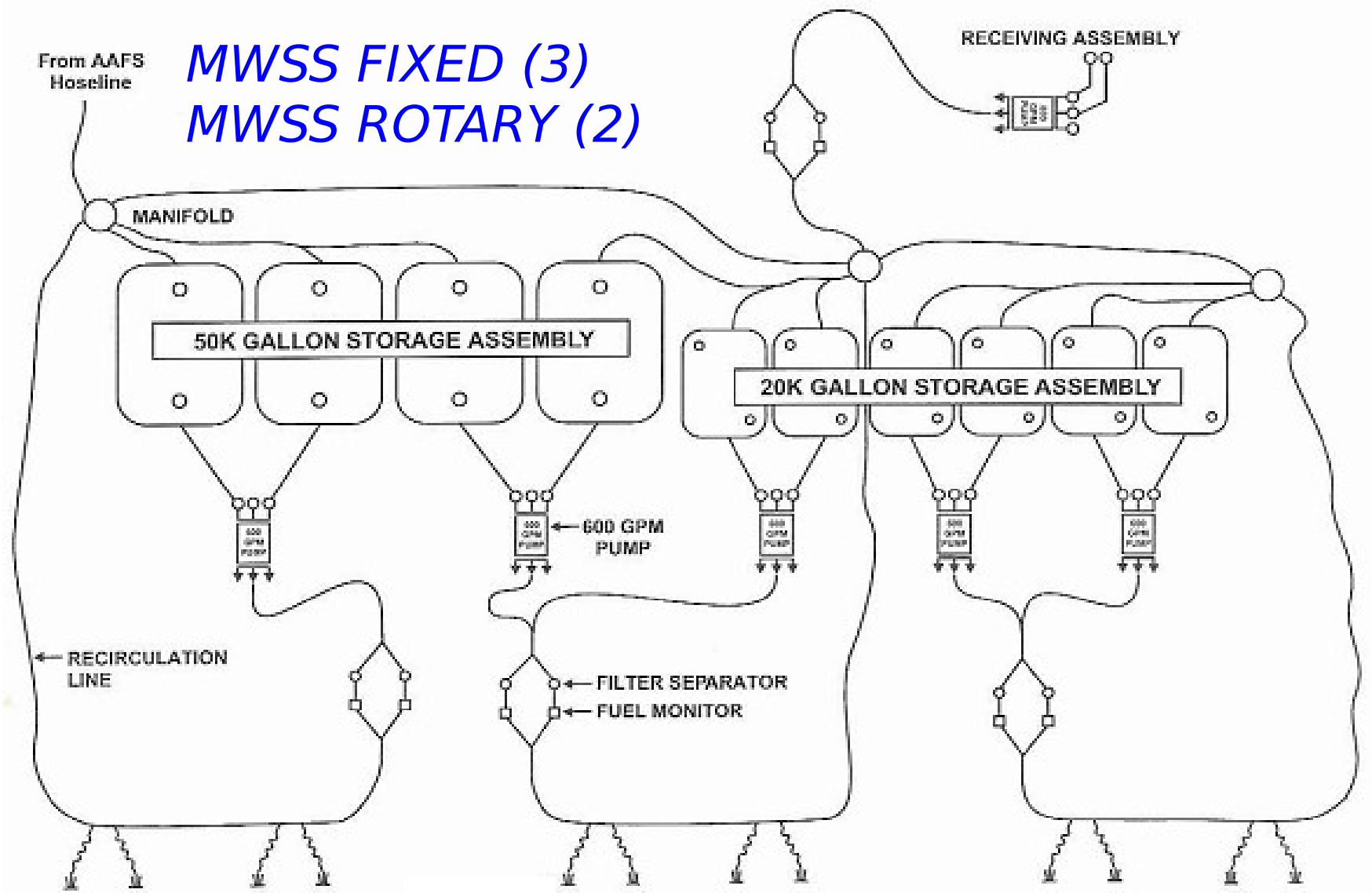
TACTICAL FUEL SYSTEMS CURRENT CAPABILITIES

TACTICAL AIRFIELD FUEL DISPENSING SYSTEM (TAFDS)

- ❖ MAINTAINED BY THE FUELS BRANCH WITHIN THE MWSS FOR RECEIPT, STORAGE AND DISTRIBUTION OF FUEL TO AVIATION ASSETS
- 320,000 GALLON CAPACITY PER SYSTEM
- (4) 50,000 GALLON & (6) 20,000 GALLON COLLAPSIBLE STORAGE TANKS
- (7) 350 OR 600 GPM PUMPS

TACTICAL AIRFIELD FUEL DISPENSING SYSTEM (TAFDS)

320,000 GALLONS

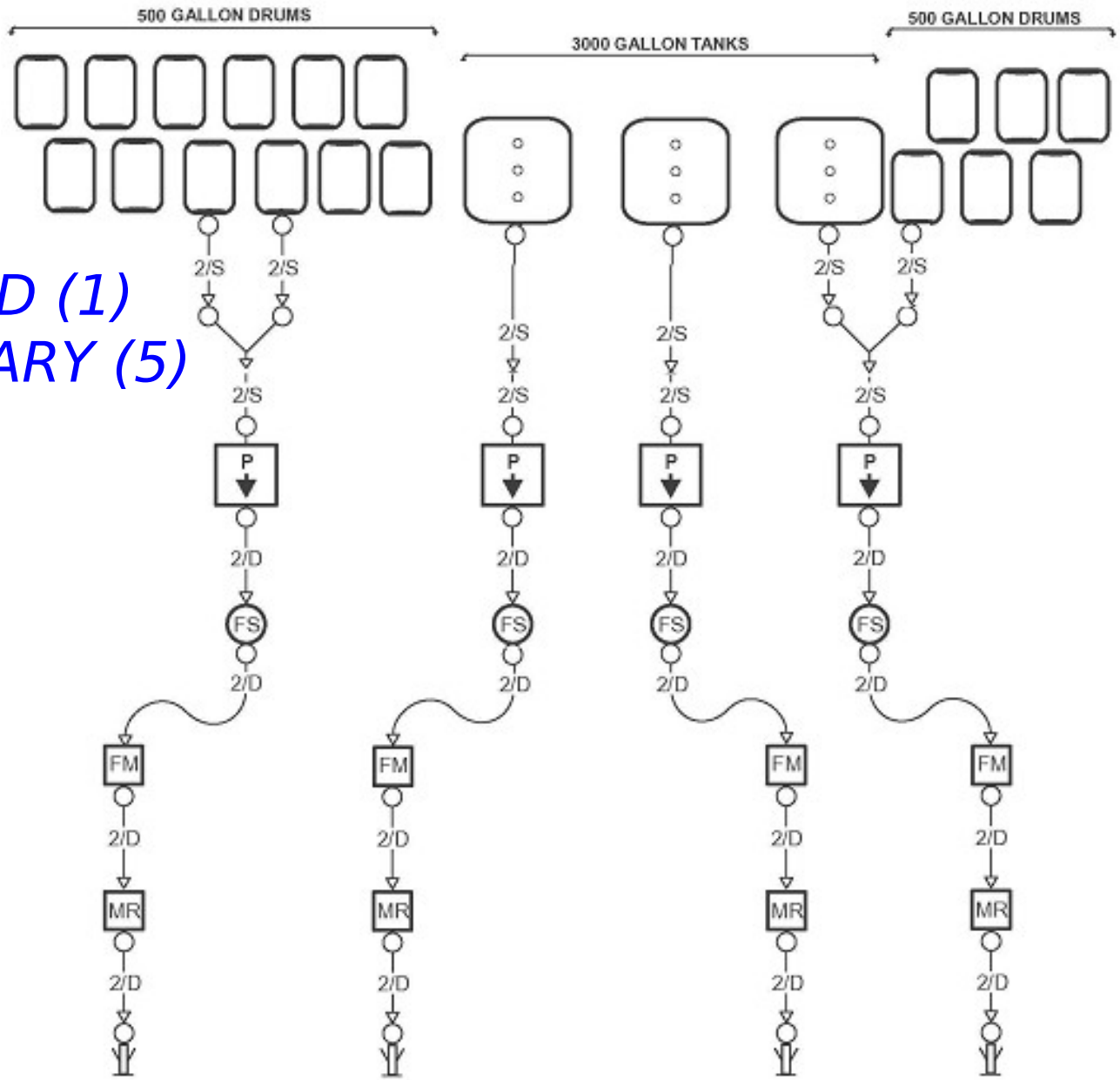


TACTICAL FUEL SYSTEMS CURRENT CAPABILITIES

- HELICOPTER EXPEDIENT REFUELING SYSTEM (HERS)
  - ❖ MAINTAINED BY FUELS BRANCH FOR RECEIPT, STORAGE AND DISTRIBUTION OF FUEL TO AVIATION ASSETS IN FORWARD OPERATING AREAS OR POINTS
    - 18,000 GALLON CAPACITY PER SYSTEM
    - (18) 500 GALLON COLLAPSIBLE FUEL DRUMS & (3) 3000 GALLON COLLAPSIBLE FUEL TANKS
    - (2) 125 GPM PUMPS

HELICOPTER EXPEDIENT REFUELING SYSTEM (HERS) 18,000 GALLONS

MWSS FIXED (1)
MWSS ROTARY (5)



TACTICAL FUEL SYSTEMS CURRENT CAPABILITIES

- M970 SEMI-TRAILER, REFUELER

  5,000 GALLONS

- TRUCK, AVIATION REFUELER,CAPABILITY (ARC)

  5,000 GALLONS

- STORAGE TANK MODULE, FUEL (SIXCON)

  900 GALLONS

M970 SEMI-TRAILER, REFUELER

5,000 GALLONS

MWSS FIXED (3)
MWSS ROTARY (3)
TSB (20) **NOTE: TRANSPORTATION SUPPORT BATTALION OF THE FSSG HOLDS (20) M970s.**

TRUCK, AVIATION REFUELER,CAPABILITY (ARC)

5,000 GALLONS

MWSS FIXED (7)
MWSS ROTARY (7)

STORAGE TANK MODULE, FUEL (SIXCON)

900 GALLONS

MWSS TANK MODULE (16)
MWSS PUMP MODULE (4)

ESB TANK MODULE (28)
ESB PUMP MODULE (8)

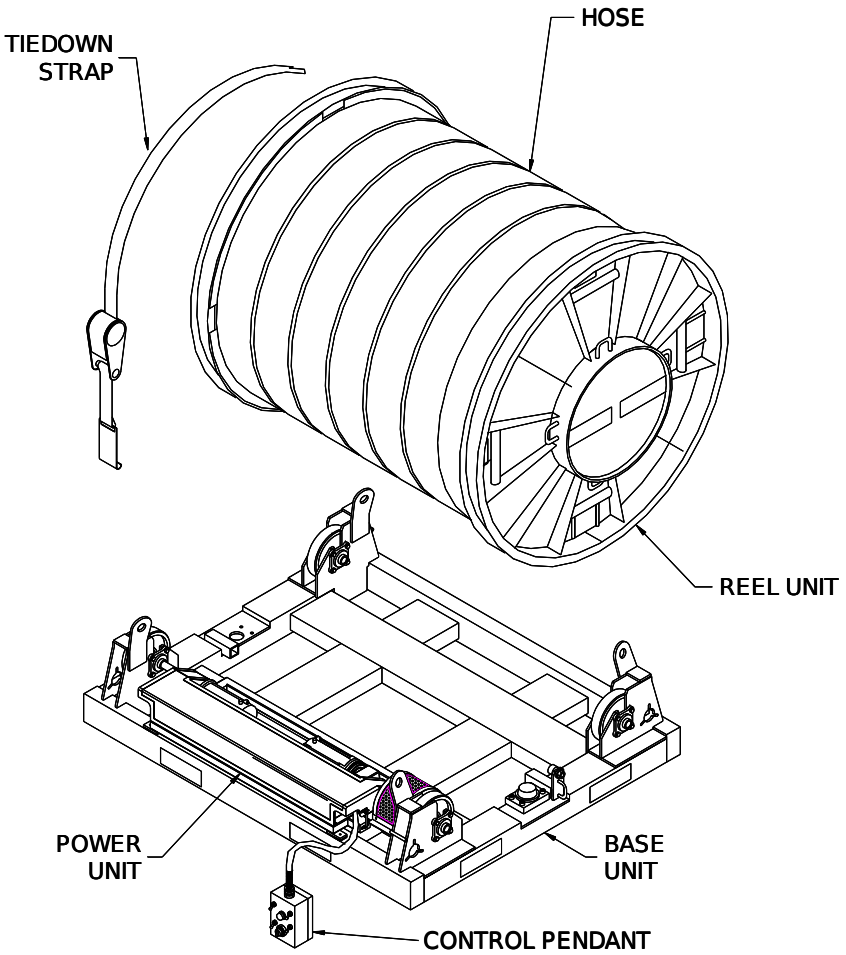
TSB PUMP MODULE (34)
TSB TANK MODULE (125)

TACTICAL HOSE REEL SYSTEM (HRS)

HOSE REEL SYSTEM

BULK FUEL COMPANY (4) SYSTEMS

- A COMPLETE **5-MILE** HRS CONSISTS OF:
  - 2 BASE UNITS
  - 2 POWER UNITS
  - 1 INTERCONNECTION KIT
  - 11 HOSE REELS, EACH CONSISTING OF:
    - ONE REEL
    - FOUR 600-FOOT HOSE SECTIONS



HOSE REEL SYSTEM

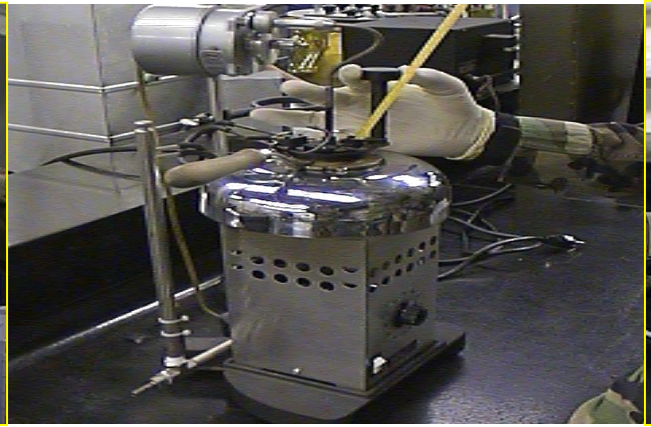
- **SUB-COMPONENT OF THE AAFS FOR INTERNAL CONNECTIVITY**
- **EMPLACED AT 2-3 MPH AND RETRIEVED AT .5 – 1.5**
- **POWERED BY HOST VEHICLE VIA STANDARD NATO PLUG**
- **ONE HRS SYSTEM PACKS OUT IN FOUR ISO CONTAINERS**

TACTICAL PETROLEUM LAB MEDIUM (TPLM)

- ISO 8X8X20
- 2 -PER MEF
- 6 -RESERVES
- 1 -PER MPS
- 1 -SCHOOLS

TACTICAL PETROLEUM LAB MEDIUM (TPLM)

"B" LEVEL TESTING



TYPICAL A/C UNIT

(NOT SUPPLIED)

TYPICAL GENERATOR

(NOT SUPPLIED)

SUMMARY

- FUEL DISTRIBUTION
  (TRANSPORTATION STUDY IN PROCESS)

- USMC HOSE REEL SYSTEMS HAVE LIMITATIONS. THEY ARE NOT THEATER DISTRIBUTION ASSETS AND SHOULD NOT BE PLANNED FOR USE AS SUCH.

QUESTIONS?